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RAE SYSTEMS FIXED GAS DETECTION

RAEGuard 2 PID

NEW WirelessLink ConceptLive

The RAEGuard 2 PID is a fixed photoionization detector (PID) that measures a broad range of volatile organic compounds (VOCs). The RAEGuard 2 PID operates on 10 to 28 VDC and provides an analog (4-20mA) three-wire signal output and RS-485 Modbus digital signal output. Calibration and maintenance have been greatly simplified as the digital PID module can be easily removed in hazardous locations for calibration or maintenance.

The RAEGuard 2 PID has a graphic display and LED light status indicator for fault and alarm conditions. In addition, low, high, and fault relays can be configured to trigger external alarms or process controls. Over 200 correction factors are pre-programmed and allow users to display readings of a specific target gas. A magnetic key interface enables the detector to be calibrated and operational parameters adjusted with the explosion-proof enclosure in place.

Features:

- Class 1, Division 1 (ATEX Zone 0) intrinsically safe continuous VOC monitoring solution
- Three wire 4-20mA analog output and RS-485 digital communication in ModBus protocol
- Three dry contact relays (<30V, 2A) normally open (or normally closed), one for high and low alarm, another for fault alarm
- Explosion-proof stainless steel enclosure suitable for outdoor hazardous environment applications
- Magnetic key interface eliminates the need to open the housing when adjusting parameters
- Continuous VOC monitoring in hazardous and non-hazardous area locations
- Reduced maintenance costs due to easily removable sensor module; Sensor can be removed and serviced in hazardous locations
- Faster response time with sample flow-through design powered by internal diaphragm pump
- Humidity compensation ensures accurate readings even in humid environments

RAEGuard 2 Fixed Sensor Head Specifications

Basic Parameters	
Working Current	DC 10 to 28V, 210mA at 24V
Power	<5W
Output	• 4-20mA • Three-level programmable alarm relays (30 VDC, 2A) • RS-485 (Supports Modbus)
Sampling	Internal diaphragm pump, up to 500cc/min
IP Rating	IP-65
Mechanical Interface	3/4" NPT Male
Installation	2" pipe-holding or wall mounting
User Interface	Three-key magnetic bar adjustment
Calibration	Two points
Warranty	1 yr for pump, 2 yrs for housing and electronics
Environmental Parameters	
Temperature	-4° F to 131° F (-20° C to +55° C)
Humidity	0 to 95% relative humidity, non-condensing
Pressure	90 to 110kPa
Physical Parameters	
Size	10.1" L x 7.9" W x 4.2"H (257 x 201 x 107 mm)
Weight	3.5 kg (7.7 lbs)
Material	316 stainless steel
Certification	
ATEX	Ex II 2(1)G, Ex d [ia Ga] IIC T4 Gb
UL/CSA	Class 1, Div. 1, Groups ABCD T4
IECEx	Ex d [ia Ga] IIC T4, Gb

Ordering Information

DESCRIPTION	PRODUCT NO
Kits	
Kit, RAEGuard 2 PID, ATEX/IECEx, 0.1 – 1000 ppm isobutylene equivalent	D03-0005-000
Kit, RAEGuard 2 PID, ATEX/IECEx, 1 – 1000 ppm isobutylene equivalent. Note: Correction factors and relays are not available for this detection range	D03-0008-000
Kit, RAEGuard 2 PID, UL, 0.01 – 100 ppm isobutylene equivalent	D03-0009-000
Kit, RAEGuard 2 PID, UL, 0.1 – 1000 ppm isobutylene equivalent	D03-0010-000
Kit, RAEGuard 2 PID, UL, 1 – 1000 ppm isobutylene equivalent. Note: Correction factors and relays are not available for this detection range	D03-0012-000
Fixed Heads	
RAEGuard 2 Fixed Head - ATEX/IECEx (No sensor module)(Includes RAEGuard 2 fixed head, ATEX safety barrier, magnetic key, hex service tool, user manual)	D03-0007-000
RAEGuard 2 Fixed Head - UL (No sensor module) (Includes RAEGuard 2 fixed head, ATEX safety barrier, magnetic key, hex service tool, user manual)	D03-0013-000
Sensor Modules	
DigiPID sensor module, ATEX/IECEx/UL, 0.01 - 100 ppm isobutylene equivalent	C01-0001-000
DigiPID sensor module, ATEX/IECEx/UL, 0.1 - 1000 ppm isobutylene equivalent	C01-0002-000
DigiPID sensor module, ATEX/IECEx/UL, 1 - 1000 ppm isobutylene equivalent*Note: Correction factors and relays are not available for this detection range	C01-0004-000

Call us for available accessories

RAEGuard EC

The RAEGuard EC is a permanently mounted (fixed) toxic gas or oxygen sensor/transmitter that operates from a 9 to 36 VDC power source and provides an analog (4 to 20mA) and digital (RS-485) signal output. Housed in an explosion-proof enclosure, the RAEGuard EC is equipped with a local digital display of the gas concentration and function keys for performing calibration. The RAEGuard EC is operated with a standard 4 to 20mA/RS-485 controller or as a standalone sensor module.

Features:

- Available sensors: CO, H2S, O2, SO2
- Explosion-proof 7R electrochemical sensor
- 4 to 20mA analog and RS-485 digital output of specified sensor
- Explosion-proof enclosure for hazardous locations
- Local displays with adjustment keys

RAEGuard S

The RAEGuard S is a permanently installed gas detector for hydrocarbon combustible gases, carbon dioxide, and a wide range of toxic gases. It is a flexible detector which provides both an analog (4-20mA) and digital (RS-485, ModBus RTU) output signal. The RAEGuard S uses a smart sensor which can be off-line pre-calibrated. An explosion-proof stainless steel enclosure and magnetic key non-intrusive operation make the RAEGuard S ideal for use in hazardous environments. The RAEGuard S is equipped with a local digital display and LEDs for viewing of gas concentration and alarm conditions.

Features:

- Magnetically accessed keys for non-intrusive calibration
- RS-485 digital communication in ModBus protocol
- Adjustable 4-20mA analog output
- Operation at 9 to 36VDC
- 2 programmable alarm relays
- Smart NDIR, Catalytic or Electrochemical sensors
- Offline calibration
- Quick response sensors
- Explosion-proof enclosure for hazardous environment application

RAEGuard LEL

The RAEGuard LEL is a permanently mounted (fixed) catalytic bead combustible gas detector/transmitter that operates from a 9 to 36 VDC power source and provides an analog (4 to 20mA) and digital (RS-485) signal output in the range of 0 to 100%LEL combustible gas. Housed in an explosion-proof enclosure, the RAEGuard LEL is equipped with a local digital display of the gas concentration and function keys for performing calibration. The RAEGuard LEL can be operated with a standard 4 to 20mA/RS-485 controller or as a standalone sensor module.

Features:

- Highly poison-resistant catalytic bead combustible gas LEL sensor
- 4 to 20mA analog and RS-485 digital output of 0 to 100%LEL combustible gas including methane, hydrogen or other combustible gases

RAEGuard PID

The RAEGuard PID is a permanently mounted photoionization detector (PID) transmitter for monitoring volatile organic compounds (VOCs). Housed in an explosion-proof enclosure, the RAEGuard PID is equipped with a local digital display of gas concentration and functional keys for performing calibration.

Features:

- 4-20 mA analog output ranging from 0.1 to 100.0 ppm, or 1 to 1000 ppm
- 4-20 mA analog output ranging from 0.01 to 20.00 ppm
- Long life 10.6 eV Ultraviolet lamp and 3D Sensor
- Built-in pump with patented self-cleaning duty cycle operation

RAEAlert

The RAEAlert line of fixed gas detectors provides air monitoring in hazardous environments. The explosion-proof design uses an economical cast-aluminum housing and is certified for use in Class I, Division 1 (ATEX Zone 1) environments. All RAEAlert detectors communicate via 4-20mA analog or RS485 digital signal protocols. Non-intrusive calibration and maintenance is performed with an intrinsically safe infrared (IR) remote, and all toxic and O2 sensors can be replaced in any environment. The RAEAlert line provides maximum flexibility by including sensor options for flammable, oxygen, and various toxic gases. In addition, each RAEAlert detector has an optional LCD display, optional internal relays, and optional IR remote control.

Features:

- Wide range of sensors available: flammable, oxygen, and toxic gases
- Class I, Division 1 (ATEX Zone 1) certified for use in hazardous areas
- Infrared remote control for non-intrusive field calibrations and maintenance
- Adjustable full-scale range
- 4-20mA analog and RS485 digital outputs (3 or 4 wire)

RAEPoint

RAEPoint is a multi-function wireless infrastructure component for RAE Systems wireless gas detection systems. This key building block can operate as an access point in hazardous areas to communicate with wireless gas detectors to enable integration with FMC-2000 or PC-based ProRAE Guardian host controllers. When directed by the controller, the RAEPoint can use any of its five internal relays to trigger audible and visible alarms to provide additional alert notification in hazardous locations. Additionally, the RAEPoint operates as a range extender to increase the wireless transmission distance of wireless gas detectors. The RAEPoint can be configured as a stand-alone unit or integrated with an optional alarm bar.

Features:

- 5 internal SPDT relays
- Wireless transmission distance of 1000 ft (300m) point-to-point; range can be extended by using wireless routers
- Continuously powered by standard 12-28VDC input
- Class 1, Division 1 (ATEX Zone 1) hazardous area certification
- Available as standalone unit, or as a turn-key wireless alarm bar solution, mounted and pre-wired with two 5J xenon lights and a 110db horn

FMC-2 and FMC-4

The FMC-2 and FMC-4 controllers are designed to provide simultaneous display and alarm functions for two (FMC-2) or four (FMC-4) 4-20mA sensor transmitters. Easy to configure and user friendly, they can function as critical alarm controllers for toxic or combustible gases. The controllers are easy to install and feature a large graphical LCD display, standard 4-20mA inputs, and non-intrusive inputs for hazardous areas.

Features:

- Accepts inputs from up to two (FMC-2) or four (FMC-4) 4-20mA sensor transmitters
- Internal power supply generates 24VDC and provides 15 watts total system power; optional 50-watt supply available
- Three independent alarm levels per channel; Relay Acknowledge feature allows silencing of external audible devices during existing alarm conditions
- Two standard SPDT common alarm relays are configurable for HORN, HIGH, WARN or FAULT
- Touch and magnetic keypad for nonintrusive operation in potentially hazardous locations

FMC-10

The FMC-10 has been designed to operate in the full range of environments from commercial premises through to heavy industrial applications which may require hazardous area sensing.

A fixed single point alarm unit that meets the requirements for economic and reliable monitoring of gas levels in a wide range of environments, from commercial premises through to heavy industrial applications which may require hazardous area sensing. Typical monitor locations include public buildings, boiler plant rooms, swimming pools, water treatment works, H&V control systems, manufacturing and process plants.

Features:

- Flammable,oxygen or toxic gases
- Wall or panel mount
- Two alarm stages + relays
- Internal or remote sensor
- Compact size
- Low power consumption
- 4-20mA analog output
- Sealed to IP65 rating
- Extensive fault detection circuitry
- Delay to alarm options

FMC-16

The FMC-16 fixed systems controller provides simultaneous display and alarm functions for up to 16 monitored variables. Easy to configure and user friendly, the FMC-16 can function as a critical alarm controller for toxic or combustible gases. The controllers are easy to install and feature a large graphical LCD display and non-intrusive user interface for hazardous areas.

Features:

- Accepts up to 16 inputs from either 4-20mA or Modbus transmitters
- Internal power supply generates 24VDC and provides 15 watts total system power; optional 150 watts supply available
- Dual Modbus RS-485 serial ports for simultaneous master/slave operation.
- Three independent alarm levels per channel. “Relay Acknowledge” feature allows silencing external audible devices during existing alarm conditions
- Standard SPDT common alarm relays for HORN, HIGH, WARN and FAULT

FMC-64

The FMC-64 provides simultaneous display and alarm functions for up to 64 input variables with operations set for 16, 32, 48 or 64 channels and I/O modules arranged in groups of 16 channels. The easy-to-configure, user-friendly controller is ideal for centralizing display and alarm functions in critical multi-point monitoring applications.

Features:

- 16, 32, 48, and 64 channel display modes accept inputs from many sensor types and signal ranges.
- Ethernet with Modbus TCP Master/Slave and web server for configuration and monitoring.
- RS-485 serial ports allow simultaneous Modbus Master/Slave operation. Two standard ports and two optional isolated ports.
- Three independent alarm levels per channel. “Relay Acknowledge” feature allows silencing of external audible devices during alarm conditions.
- Five standard SPDT 5-Amp alarm relays for HORN and FAULT, plus three programmable alarm relays.

FMC-60

The FMC-60 is a multi-channel controller that has been designed to operate in the full range of environments from commercial premises through to heavy industrial applications which may require hazardous area sensing. It operates on a 4 core (addressable) or 2/3 core (direct) cable network and has the capacity to monitor up to 64 addressable and 16 direct sensors of various gas types.

Each sensor continuously monitors the atmosphere, reporting any hazardous conditions to the control unit for display by the alphanumeric screen, indicating the reporting sensor, gas type, concentration and alarm status. Alarm levels that are exceeded will automatically activate a variety of signal outputs including analog/digital data and user selectable relays.

Features:

- Up to 64 addressable sensors
- 1-16 direct 4-20mA sensors - 2/3 wire
- Single 4 core sensor network (addressable)
- Parameter set up via PC or front panel
- On screen text description of sensor locations
- 3 alarm levels
- Event - data logging - internal 99 event
- One man calibration utilizing peak readings
- Automatic safety check diagnostics/system surveillance
- Combi Plus, up to 128 addressable sensors per panel
- Optional:
  - Repeater panel
  - 64 additional relays
  - Continuous datalogging via PC
  - Addressable relay board

FMC-40

The FMC-40 is a 1-4 channel gas alarm that has been designed to operate in the full range of environments from commercial premises through to heavy industrial applications which may require hazardous area sensing. The FMC-40 system operates on single channels plug and play cards.

Features:

- Versatile system configuration
- Flammable, oxygen and toxic gases
- 1 to 4 sensors
- Plug in sensor channel cards
- Two alarm stages
- Selectable alarm relays
- Analog 4-20mA output
- Delay to alarm option

INTERSCAN FIXED GAS DETECTION

LD Series

Interscan's LD Series represents the ultimate in single point continuous gas monitoring systems. Each and every component has been chosen based on years of experience in some of the most demanding environments imaginable. What's more, the units are easy and inexpensive to maintain.

Features:

- 3-1/2 digit LED display
- Integral sample pump and rotameter
- Single-Point analyzer housed in NEMA 4X fiberglass enclosure with window
- Millipore particulate filter
- Dual alarm set points activating relay contact closures
- 4-20 mA and 0-1 V analog output

2-Point Series

Interscan's two-point systems are an expansion of the field-proven LD Series continuous monitoring systems. This two point system offers the same proven reliability and is available for all the gases monitored by Interscan. And you're not limited to monitoring two points of the same gas - two different gases can be incorporated into this configuration.

Features:

- 3-1/2 digit LED displays
- Appropriate sensors
- Integral sample pumps and rotameters
- Rugged NEMA 12 steel enclosure with window
- Millipore particulate filters
- Dual alarm set points activating relay contact closures
- 4-20 mA and 0-1 V analog output

Concept Controls and Interscan can create custom systems to meet the requirements of any gas detection situation.

Ordering Information

Gas	Range	LD Series	2-Point
Br2	0-20.0 ppm	LD70-20.0m	LD270-20.0m
Bromine	0-5.0 ppm	LD70-5.0m	LD270-5.0m
CO	0-2000 ppm	LD14-2000.0m	LD214-2000m
Carbon Monoxide	0-200.0 ppm	LD14-100.0m	LD214-100.0m
	0-100.0 ppm	LD14-200.0m	LD214-200.0m
	0-50.00 ppm	LD14-50.0m	LD214-50.00m
Cl2	0-20.0 ppm	LD34-20.0m	LD234-20.0m
Chlorine	0-5.0 ppm	LD34-5.0m	LD234-5.0m
ClO2	0-20.0 ppm	LD33-20.0m	LD233-20.0m
Chlorine Dioxide	0-5.0 ppm	LD33-5.0m	LD233-5.0m
	0-2.0 ppm	LD33-2.0m	LD233-2.0m
C2H4	0-2000 ppm	LD-07-2000m	LD207-2000m
Ethylene	0-200.0 ppm	LD-07-200.0m	LD207-200.0m
	0-20.0 ppm	LD07-20.0m	LD207-20.0m
	0-5.0 ppm	LD-07-5.0m	LD207-5.0m
EtO	0-20.0 ppm	LD20-20.0m	LD220-20.0m
Ethylene Oxide	0-5.0 ppm	LD20-5.0m	LD220-5.0m
	0-50.00 ppm	LD20-50.0m	LD220-50.00
HCHO	0-20.0 ppm	LD16-20.0m	LD216-20.0m
Formaldehyde	0-2.0 ppm	LD16-2.0m	LD216-2.0m
H2NNH2	0-20.0 ppm	LD18-20.0m	LD218-20.0m
CH3NHNH2	0-2.0 ppm	LD18-2.0m	LD218-2.0m
(CH3)2NNH2			
Hydrazine(s)			
HBr	0-20.0 ppm	LD80-20.0m	LD280-20.0m
Hydrogen Bromide	0-5.0 ppm	LD80-5.0m	LD280-5.0m
HCl	0-20.0ppm	LD36-20.0m	LD236-20.0m
Hydrogen Chloride	0-5.0 ppm	LD36-5.0m	LD236-5.0m
HCN	0-50.0 ppm	LD28-20.0m	LD228-50.0m
Hydrogen Cyanide	0-20.0 ppm	LD28-50.0m	LD228-20.0m
	0-5.0 ppm	LD28-28-5.0m	LD228-5.0m
H2S	0-500.0 ppm	LD17-500.0m	LD217-500.0m
Hydrogen Sulfide	0-200.0 ppm	LD17-200.0m	LD217-200.0m
	0-20.0 ppm	LD17-20.0m	LD217-20.0m
	0-2.0 ppm	N/A	LD217-2.0m
	0-1.0 ppm	LD17-1.0m	LD217-1.0m
NO	0-2000 ppm	LD54-2000m	LD254-2000m
Nitric Oxide	0-200.0 ppm	LD54-200.0m	LD254-200.0m
	0-20.0 ppm	LD54-20.0m	LD254-20.0m
	0-5.0 ppm	LD54-5.0m	LD254-5.0m
NO2	0-50.0 ppm	LD15-50.0m	LD215-50.0m
Nitrogen Dioxide	0-20.0 ppm	LD15-20.0m	LD215-20.0m
	0-5.0 ppm	LD15-5.0m	LD215-5.0m
O3	0-50.0 ppm	LD48-50.0m	LD248-50.0m
Ozone	0-20.0 ppm	LD48-20.0m	LD248-20.0m
	0-5.0 ppm	LD48-5.0m	LD248-5.0m
PrO	0-50.0 ppm	LD32-50.0m	LD232-50.0m
Propylene Oxide	0-20.0 ppm	LD32-20.0m	LD232-20.0m
	0-5.0 ppm	LD32-5.0m	LD232-5.0m
SO2	0-200 ppm	LD24-200.0m	LD224-200m
Sulfur Dioxide	0-50.0 ppm	LD24-50.0m	LD224-50.0m
	0-20.0 ppm	LD24-20.0m	LD224-20.0m
	0-5.0 ppm	LD24-5.0m	LD224-5.0m
	0-2.0 ppm	LD24-2.0m	LD224-2.0m

RM Series

Interscan's Rack-Mount configured gas analyzers are intended for those applications in which line power operation is desired (allowing continuous operation and the incorporation of heavier-duty alarm signals or alarm contacts), but in which the rigorous NEMA 4X packaging of the LD Series is not required.

Designed to be installed in a standard 19 inch (483 mm) rack or to be used on the bench, their open frame construction and use of standard electrical and pneumatic components allow easy incorporation of the units into a system.

Features:

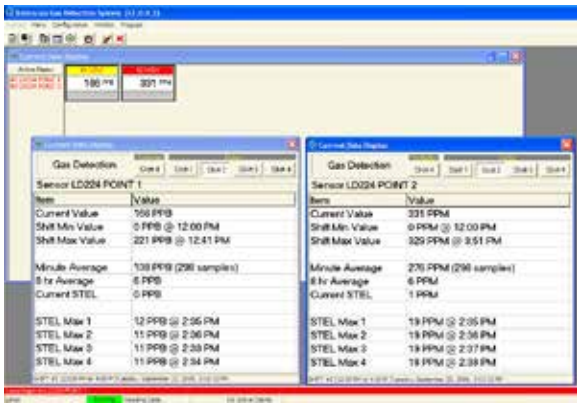
- 3½ digit LED display
- Integral pump and rotameter
- 0-100 mV analog output-adjustable
- Turns-counting potentiometers
- Wrap-around cover

Ordering Information

Gas	Range	MODEL No.
Br2	0-20.0ppm	RM70-20.0m
Bromine	0-5.0ppm	RM70-5.0m
CO	0-2000ppm	RM14-2000m
Carbon Monoxide	0-200.0ppm	RM14-200.0m
	0-100.0ppm	RM14-100.0m
	0-50.0ppm	RM14-50.0m
Cl2	0-20.0ppm	RM34-20..0m
Chlorine	0-5.0ppm	RM34-5.0m
ClO2	0-20.0ppm	RM33-20.0m
Chlorine Dioxide	0-5.0ppm	RM33-5.0m
	0-2.0ppm	RM33-2.0m
C2H4	0-2000ppm	RM07-2000m
Ethylene	0-200.0ppm	RM07-200.0m
	0-20.0ppm	RM07-20.0m
	0-5.0ppm	RM07-5.0m
EtO	0-20.0ppm	RM20-20.0m
Ethylene Oxide	0-50.0ppm	RM20-0-50.0m
	0-5.0ppm	RM20-5.0m
HCHO	0-20.0ppm	RM16-20.0m
Formaldehyde	0-2.0ppm	RM16-2.0m
H2NNH2	0-20.0ppm	LD18-20.0m
CH3NHNH2	0-2.0ppm	LD18-2.0m
(CH3)2NNH2		
**Hydrazine(s)		
HBr	0-20.0ppm	RM80-20.0m
Hydrogen Bromide	0-5.0ppm	RM80-5.0m
HCl	0-20.0ppm	RM36-20.0m
Hydrogen Chloride	0-5.0ppm	RM36-5.0m
HCN	0-20.0ppm	RM28-20.0m
Hydrogen Cyanide	0-50ppm	RM28-50.0m
	0-5.0ppm	RM28-5.0m
H2S	0-500.0ppm	RM17-500.0m
Hydrogen Sulfide	0-200.0ppm	RM17-200.0m
	0-20.0ppm	RM17-20.0m
	0-2.0ppm	RM17-2.0m
	0-1.0ppm	RM17-1.0m
NO	0-2000ppm	RM54-2000m
Nitric Oxide	0-200.0ppm	RM54-200.0m
	0-20.0ppm	RM54-20.0m
	0-5.0ppm	RM54-5.0m
NO2	0-50.0ppm	RM15-50.0m
Nitrogen Dioxide	0-20.0ppm	RM15-20.0m
	0-5.0ppm	RM15-5.0m
O3	0-50.0ppm	RM48-50.0m
Ozone	0-20.0ppm	RM48-20.0m
	0-5.0ppm	RM48-5.0m
PrO	0-50.0ppm	RM32-50.0m
Propylene Oxide	0-20.0ppm	RM32-20.0m
	0-5.0ppm	RM32-5.0m
SO2	0-200.0ppm	RM24-200.0m
Sulfur Dioxide	0-50.0ppm	RM24-50.0m
	0-20.0ppm	RM24-20.0m
	0-5.0ppm	RM24-5.0m
	0-2.0ppm	RM24-2.0m

Arc-Max

Arc-Max is a data acquisition system that will continuously store input from all kinds of workplace sensors and produce reports of employee exposure to toxics automatically.



Using the powerful Teos SCADA (Supervisory Control and Data Acquisition) engine, alarm logs, trending, and specialized reports, giving key occupational health information, are available at the click of a mouse.

Up to four independent shifts per day can be assigned, to better analyze exposure data. The shifts can overlap. Current and historical shift reports are both readily available.

The Shift Report tracks the following for each sensor monitored by Arc-Max:

- Shift Minimum value and time of occurrence
- Shift Maximum value and time of occurrence
- 8 hour time-weighted average
- The four highest 15-minute average exposures that occurred during the shift (STEL)

HONEYWELL INDUSTRIAL FIXED GAS DETECTION

XNX Universal Gas Transmitter

The XNX Universal Transmitter supports the widest range of sensors on a common platform and offers a modular choice of inputs and outputs, saving customers time and money on wiring and material costs, installation, maintenance and operation. The advantage comes from a simple-to-use, low-maintenance universal platform that works with other safety equipment on a digital bus system, including Honeywell Analytics' own Searchline Excel, Optima or other gas detectors, industry standard PLCs and third-party gas monitoring controllers.

XNX supports Electrochemical, Infrared and Catalytic Bead gas monitors and uses standard 4-20mA wiring and HART. Options include Modbus, Fieldbus (pending) up to three relays and a local Hart Adapter for configuration and diagnostics using existing HART handheld devices.

Features:

- High Performance
  - Flammable gas detection 0 to 100% LFL/LEL
  - Point IR with heated optics provides immunity to poisoning and no hidden faults
  - Open-path IR flammable gas detection in LEL measurement
  - Electrochemical cell offers toxic gas detection in ppm
  - IR cell provides CO2 and combustible gas monitoring
- Flexible Operation
  - Supports mV (Catalytic Bead and IR Cell), Electrochemical Cell, and IR (point and open-path) gas detection
  - 4-20mA with HART as standard
  - Enclosure available in stainless steel or aluminum, with marine grade coating
  - Multiple communications options include up to 3 relays, Modbus and Foundation H1 Fieldbus
  - With 200+ unique configurations, XNX satisfies Class I Div 1 intrinsically safe, explosion proof requirements
- Easy to Use
  - Large, backlit, easy-to-view LCD display offers multisensory indicators (visual icons, coloured buttons, text, etc.) to display gas and sensor readings
  - Self-test and fault indication features
  - Simple plug-in sensors and replaceable cells

Sensepoint XCD

The Sensepoint XCD transmitter provides comprehensive monitoring of combustible, toxic and oxygen gas hazards in potentially explosive atmospheres, indoors and outdoors—and is marked by installation ease and flexibility, user-friendly operation ,and cost-effective gas monitoring.

Sensepoint XCD now has remote monitoring capabilities for its toxic and oxygen sensors. Its remote capability is designed to offer excellent flexibility of use and is an ideal solution for hard-to-reach locations or areas where the transmitter needs to be separate from the sensor. With remote toxic andoxygen sensor mounting of up to 100 feet (30m) away from the transmitter, Sensepoint XCD provides a robust monitoring solution even in challenging environments where detection is difficult, including applications where the point of detection is in an area that is not easily accessible or where the detector would not be visible, like in high or low level concealed areas or outside a room being monitored.

Sensepoint XCD is easy to use. The sensor simply plugs into the bottom of the transmitter and the transmitter automatically configures itself accordingly. Users can modify detector operation using the LCD and magnet switches without ever needing to open the unit. This enables one-man, non-intrusive operation and reduces routine maintenance time and costs.

Features:

- Flammable (catalytic or infrared), toxic and oxygen versions available
- Serves new/retrofit, indoor/outdoor applications
- Stainless steel or aluminum explosion-proof housing options
- IP66 as standard
- Proven and Reliable Sensor Technology
  - Surecell electrochemical sensors
  - Poison immune infrared sensors
  - Poison resistant catalytic bead sensors
  - Long life sensors
- Global Approvals
  - US and Latin America, European, Canadian and Asian
  - Compliant with UL, INMETRO, ATEX, IECEx, CSA, KTL, PA, GB and CCCF standards
- Easy to Use
  - User friendly and intuitive tri-colour backlit display with digits, bar graph, and icons
  - Optional remote sensor mounting
  - Selectable sink or source 4-20mA output
  - Modbus communications for remote diagnostics/ configuration
  - Plug-in sensor replacement

Sensepoint XCD RTD

Sensepoint XCD RTD makes monitoring toxic gases in Class I, Div 2 areas easy. You can mount the unit up to 100 feet from the transmitter to obtain maximum gas detection coverage in areas not easily accessible or where the sensor would not be visible, as in high- or low-level concealed areas, or detection outside the room being monitored. XCD RTD offers unrivaled flexibility and performance via its easily recognizable display (traffic light pattern) to convey safety status, communication and mounting options, and onboard diagnostics.

Features:

- Fully configurable via non-intrusive magnetic switches
- Plug-in sensor replacement
- User friendly and intuitive tri-colour backlit display with digits, bar graph, and icons
- Extend gas sensing element up to 100 feet (30 metres) away; mount in the most difficult to access areas
- IP66/67 rated stainless steel or aluminum enclosure
- Prevent false alarms with auto-inhibit during maintenance
- Selectable sink or source 4-20mA output; integral or remote configuration
- Full range of accessories and purchase options

Sensepoint XCD RFD

Sensepoint XCD RFD is your most flexible, practical choice for remote flammable gas monitoring in Class I Division 1 areas. XCD RFD extends intelligent, simplified gas monitoring to hard-to-reach areas.

Features:

- Poison-resistant catalytic bead sensors offer reliable, long-lasting sensing life in an explosion-proof assembly
- Mount transmitter in easy to access area even if sensor is located in difficult or restricted access area up to 100' away
- Easy to read tri-colour backlit display with digits, bar graph, and icons
- Fully configurable via non-intrusive magnetic switches
- Selectable sink or source 4-20mA output
- Auto-inhibit during maintenance prevents false alarms
- Common transmitter platform: monitor full range of flammable gases
- Longer sensor life compared to electrochemical sensors
- Optional Modbus adds diagnostic capabilities and advanced intelligence

705 HT Series of Flammable Gas Sensors

The Model 705 high temperature sensor has been specifically designed for the detection of combustible gases in high temperature hazardous area locations. Typical applications include turbine enclosures and drying ovens used in solvent based printing and coating machines.

Features:

- Certified for hazardous location operation up to +150°C (+302°F)
- Alarm trip points as low as 5% LEL
- Poison resistant detectors
- Low cost disposable sensor with > 5 year typical operating life
- Specially matched 'Sieger' detectors provide highest stability
- Measuring ranges from 0-20% LEL to 0-100% LEL
- High grade aluminum construction with UL approved explosion proof enclosure
- Wide range of accessories

Series 3000 MkII Transmitter with Sensor

The Series 3000 MkII provides comprehensive monitoring of toxic and oxygen gas hazards in potentially explosive atmospheres, both in and out of doors. This low powered gas detector operates on an industry standard 2-wire 4-20mA loop, making it ideal for both new and retrofit applications. Users can configure the detector without the need of a 'hot work permit' by using the LCD and magnetic switches. Fault diagnostic software and programmable calibration due frequency simplifies maintenance procedures.

Features:

- Uses Surecell™ electrochemical cells, ideal for hot and humid environments
- Long life sensing elements (typical >2 years)
- Patented 'Reflex' sensing element verification diagnostics
- Universal mounting bracket included supplied as standard
- Flameproof transmitter allows field wiring to be run along with other non IS instruments
- Sensor recognition software auto configures transmitter
- Non-intrusive configuration
- Plug and play factory configured sensors
- IS sensor connection permits hot swap, reducing down time
- Integral fault diagnostic software
- Menu / icon driven calibration procedure with user programmable frequency

Searchpoint Optima Plus

Searchpoint Optima Plus is an infrared point flammable Hydrocarbon gas detector certified for use in potentially explosive atmospheres. Searchpoint Optima Plus is ideal for applications requiring the fastest speed of response, reduced maintenance and fail safe operation.

Typical applications include anywhere that may suffer from the presence of catalytic bead poisons or inhibitors, or where there are harsh environmental conditions with increased time between routine maintenance.

Features:

- Fail safe operation reduces the need for maintenance
- Immunity to catalytic poisons allows monitoring in atmospheres not suitable for bead type detectors.
- Self check routines run constantly ensuring stable operation
- Wide range of detectable gases including heavy Hydrocarbons and solvents
- Range of accessories including Storm Baffle and Duct Mounting Kit
- Infrared detection principle provides fastest speed of response

Signalpoint

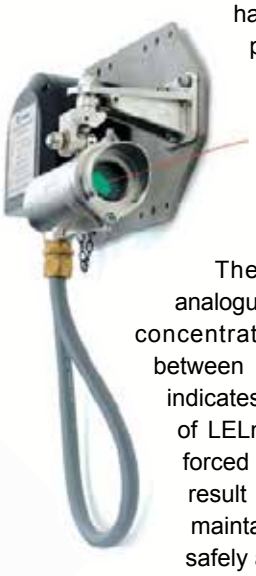
Signalpoint is a self-contained gas sensor system for either combustible or toxic gases. It consists of a sensor with integral junction box and cable entry, designed to make installation simple and maintenance minimal. Constructed in rugged plastic material, it has an IP54 (Ingress Protection) approval. The unit is particularly suited for indoor industrial applications.

Signalpoint Combustible is certified to the latest European ATEX safety and performance standards for the detection of combustible gases in potentially explosive atmospheres. It uses well proven, reliable catalytic beads with a typical lifetime of 5 years. Switch out to new sensors is easily achieved by exchange of the Signalpoint Combustible lid.

Features:

- Local LED indication of status and alarm. Easy visual recognition of hazard.
- Integral junction box with IP54 approval. For indoor non-aggressive environments.
- Electrochemical cell sensing technology. Proven, fast and reliable.
- Easy maintenance. Exchangeable electrochemical cells.

Searchline Excel



Searchline Excel operates in potentially hazardous environments, detecting the presence and build up of explosive concentrations of hydrocarbon gas clouds. Searchline Excel is certified to Exd and has the major CENELEC and UL / CSA approvals for worldwide acceptance.

The receiver unit produces an analoguoutput signal proportional to actual gas concentrations within the volume of air located between transmitter and receiver. The signal indicates the level of potential hazard in units of LELm. Plant shutdown, staff evacuation or forced ventilation can be actioned as a direct result of Searchline Excel´s alarm warning, maintaining plant productivity as long and as safely as possible.

Midas® Gas Detector

The Midas Gas Detector uses reliable sensor technology to detect many key toxic, ambient and flammable gases in a plant. The device monitors points up to 100 feet (30 metres) away while using patented technology to regulate flow rates and ensure error-free gas detection.

Features:

- Over 35 gases available with extended 2 year warranty
- Smart sensor cartridge with on board ‘e-calibration’ certificate
- 3 built in relays (Form C) for Alarm 1, 2 and Fault
- Power over Ethernet (PoE) communication
- Optional Midas Pyrolyzer module that connects to any Midas Gas Detector
- Password protected menu levels to preserve system integrity
- Bright LEDs and intuitive icon driven, large multicolour backlit LCD display
- Factory-calibrated sensors to reduce need for frequent gas testing
- Isolated 0-22 mA analog output with fault and event reporting
- Modbus/TCP Ethernet for easy connectivity to all control and alarm systems ports for control connectivity and service interaction
- Robust extractive pump system (2 year lifetime) sampling up to 100 feet
- CE marked for total immunity to Radio Frequency Interference
- Reflex® sensor health check for improved safety
- TempraSureTM temperature compensation technology as appropriate
- Event logging to review sensor history

Satellite XT Transmitter with Sensor

The Satellite XT is an intelligent gas detection transmitter which utilizes a unique electrochemical sensor to detect toxic, corrosive, and combustible gas. The Satellite XT is a “Point-of-Use” monitor normally located at or near a potential source of gas release. Field accessories allow sampling options for various environments including in–situ duct detection and extractive designs for harsh or remote areas. Typical installations for gas detection sampling include gas cabinet exhaust ducting, valve manifold boxes, equipment enclosures, and ambient breathing zones.

Each digital Satellite XT transmitter bears a unique address for use on a LonWorks® network. This feature allows it to participate in a community of other intelligent LonWorks® devices, which when considered together, comprise a life safety system network. Gas concentration and alarm information are both displayed locally at the Satellite XT, as well as distributed onto the LonWorks® network for use by other field devices. The Satellite XT provides complete programmability of all monitoring variables including gas type, alarm levels, and maintenance status.

Features:

- Fast, reliable, specific gas detection
- Continuous real–time monitoring
- Interchangeable intelligent sensor cell
- No dynamic gas calibration required
- Generic sensor head electronics
- No moving parts to wear down or replace

IR-148

WirelessLink ConceptLive™

The Model IR-148 is an infrafred gas monitor that detects toxic and combustible gases as well as solvents. It uses infrared sensing technology, allowing accurate measurement of target gas vapours with minimum interference from other vapours. The Model IR-148 is supplied as a wall mount unit configured for 1, 4 or 8 sampling points measuring down to 1 part per million (ppm). It has two available analog outputs, each which is software selectable between 10% and 100% of full scale: 4-20mA, isolated, current sourcing, and 0-10 VDC. Multiple gas calibrations are available.

Features:

- Infrared sensing technology
- Accurate measurement of target gas vapors with minimum interference
- Optional relay module can be configured for 1, 2 or 3 alarm levels
- 4-20mA

Chemcassette®

Chemcassette® is a calibration-free toxic gas detection method that uses an optical scanning system to detect the presence of gas by a colour change on the specially chemically impregnated paper tape. Chemcassette® technology is highly specific and reacts extremely quickly to the presence of parts per billion (ppb) levels of many hazardous gases. Over 200,000 points of gas detection are currently maintained by the Chemcassette® sensing technology at any given time around the world, in some of the most critical safety applications possible.

Each Chemcassette® is manufactured to traceable ISO 9000 manufacturing standards and each batch is calibrated with ultra pure gas that is traceable to nationally accepted standards.

Features:

- Visible proof of a gas release event
- Detection down to parts per billion levels
- Less cross-interference with other gases
- Fast response time
- Low false alarm occurence
- Stability (consistent, repeatable operation)
- No calibration required
- Available in fixed and portable instrumentation
- ***For list of gases see page 88***

CM4 Toxic Gas Monitor

This CM4 unit represents the latest in interference free, low maintenance, low cost of ownership solutions for the semiconductor, pharmaceutical and chemical industries. Its low profile 1/4” tubing minimizes intrusion into process areas, ducts, gas cabinets, etc. A variety of signal outputs are available making CM4 a truly flexible product. It easily installs into most building alarm systems.

An optional rack mount enclosure and printer fill out the product range, providing convenient housing and documentation capability. The unit is capable of detecting over 25 gases - some within the same family (hydrides, mineral acids, etc.).

Features:

- Continuous monitoring on 4 points
- Chemcassette technology
- Analog and serial outputs
- 300’ (90m) sampling distance
- Table, wall or rack mount versions
- LonWorks interface available
- Serial printer option
- Integral audio and visual alarms

HA20 Digital Gas Controller

The HA20 digital gas controller provides simultaneous display and alarm functions for two sensor transmitters, along with user-friendly operation and configuration flexibility. It accepts sensor inputs for gas concentration and other atmospheric data. It can function as a standalone device or can be integrated into a fire and gas system. The controller features NEMA4X enclosures and meets Class I, Div. 2, Groups A,B,C,D requirements. Explosion-proof wall mount packaging options are also available.

Features:

- Accepts inputs from up to two 4-20mA sensors transmitters Generates 24 VDC @ 8 watts external device power
- CSA certified to C22.2 No. 152 for combustible detection and Class I, Div. 2, Groups A,B,C,D, CE
- Touch & magnetic keypad for nonintrusive operation in potentially hazardous locations
- NEMA 4X (Div. 2 certified) and Explosion-Proof wall mount packaging options available
- Three standard SPDT common alarm relays for HORN, HIGH, WARN or FAULT
- 3 independent alarm levels per channel; Relay Acknowledge feature allows silencing of external audible devices during existing alarm conditions
- Graphic LCD readout displays monitored data as bar graphs, trends and engineering units; Alarm LED's flash when new and become steady after acknowledged
- Cal Mode offers push-button zero / span calibration for direct sensor interface applications; Authorization Mode allows locking of critical configuration variables

HA 40 Digital Gas Controller

The HA40 digital gas controller provides simultaneous display and alarm functions for four sensor transmitters, along with user-friendly operation and configuration flexibility. It accepts sensor inputs for gas concentration and other atmospheric data. It can function as a standalone device or can be integrated into a fire and gas system. The controller features NEMA4X enclosures and meets Class I, Div. 2, Groups A,B,C,D requirements. Explosion-proof wall mount packaging options are also available.

Features:

- Accepts inputs from up to four 4-20mA sensors transmitters. Generates 24 VDC @ 8 watts external device power
- CSA certified to C22.2 NO. 152 for combustible detection and Class I, Div. 2, Groups A,B,C,D CE
- Touch & magnetic keypad for nonintrusive operation in potentially hazardous locations
- NEMA 4X (Div. 2 certified) and Explosion-Proof wall mount packaging options available
- Three standard SPDT common alarm relays for HORN, HIGH, WARN or FAULT
- 3 independent alarm levels per channel. Relay Acknowledge feature allows silencing of external audible devices during existing alarm conditions
- Graphic LCD readout displays monitored data as bar graphs, trends and engineering units. Alarm LED's flash when new and become steady after acknowledged
- Cal Mode offers pushbutton zero / span calibration for direct sensor interface applications. Authorization Mode allows locking of critical configuration variables

HA71 Digital Gas Controller

The Honeywell Analytics HA71 16 Channel Digital Gas Controller provides simultaneous display and alarm functions for up to 16 input variables. The HA71 can expand with up to ten additional HA71 units to provide up to 160 points of gas detection.

Features:

- Accepts inputs from up to 16 4-20mA sensors transmitters
- CSA certified to C22.2 No. 152 for combustible detection and Class I, Div. 2, Groups A,B,C,D, CE
- Touch & magnetic keypad for nonintrusive operation in potentially hazardous locations
- NEMA 4X (Div. 2 certified) and Explosion-Proof wall mount packaging options available
- 3 independent alarm levels per channel; Relay Acknowledge feature allows silencing of external audible devices during existing alarm conditions
- Graphic LCD readout displays monitored data as bar graphs, trends and engineering units
- Cal Mode offers push-button zero / span calibration for direct sensor interface applications; Authorization Mode allows locking of critical configuration variables

HA72 Flexible 16-64 Digital Gas Controller

The HA72 controller is a flexible, scaleable gas controller that works the way you need it to. Input/Output modules allow for sets of 16, 32, 48 or 64 channel monitoring. Deploy the HA72 as a robust standalone life safety solution or addressable network with gas monitors and other field devices. User-friendly and visually powerful, the HA72 interface puts you in control of mission-critical information and allows you to share it across the enterprise via a secure, password-protected interface.

Features:

- Configure HA72 to accept inputs from many sensor types and signal ranges; daisy chain up to 128 HA72 controllers to expand the system to meet your needs
- Custom software auto-recognizes and addresses Honeywell gas monitors (XNX™ and Sensepoint XCD)
- Connect sensors directly to HA72 with bridge sensor input board, saving installation time and eliminating need for extra devices
- Use HA72 as a discrete life safety system or network to a PLC or DCS for addressable operation
- Multiple password levels allow ethernet access according to user need or qualification
- Various enclosure options available for hazardous and non-classified areas
- Programmable relays allow for a single relay contact point for multiple devices
- Full array of visual indicators (bar graphs, multicolour cells, flashing icons) and integrated alarm levels simplify and enhance monitoring, troubleshooting and trending functions
- Improved zone logic reduces false alarm incidents
- Touch & magnetic keypad allows non-intrusive operation in hazardous locations
- SD card logs over one year of data including concentration levels, alarm events, min/max, calibrations and alarm resets
- NEMA 4X, NEMA 4X Stainless Steel, full and half “19” Rackmount and NEMA 7 (Explosion-Proof) wall-mount options
- Modbus master/slave functionality allows for simultaneous sending and receiving of data, through four RS-485 serial ports
- Calibration and Authorization Modes facilitate and speed commissioning time; Mimic Mode allows viewing of other HA72 controllers on the host display

System 57 Controller

System 57 accepts inputs from flammable and toxic gas detectors, a large range of flame, smoke and heat detectors and manual call points. Available outputs include relays, analog signals, and industry standard digital protocols. Packaged in either wall mounting cabinets or panel mounting racks, System 57 can be used standalone or integrated into the heart of a fire and gas system.

Features:

- Unrivalled flexibility with both fire and gas control cards available in the same rack
- Display and alarm facilities for full range of gas detectors
- Multi-part LCD displays reading and status
- Choice of single channel 5701 or four channel 5704 gas control cards
- 3 levels of alarm with options of individual, zoned, voted, master, time delayed, update and rate of rise alarm facilities
- The 5704F fire control cards provide display and alarm facilities for up to four fire zone inputs
- Each fire card has two line monitored alarm output circuits
- Up to 60 fire zones per 19” rack
- Configurable for use with a wide range of fire detection products

HONEYWELL ANALYTICS FIRE & FLAME DETECTION

Fire Sentry FS24X

The Fire Sentry FS24X is the latest generation high technology Multi-Spectrum Triple IR (IR/IR/IR/Visible) Fire and Flame Detector, which is part of the FSX family of advanced technology Electro-Optical fire detectors. Using our patented*WideBand IR™, WideBand 4.3 micron IR™, and Visible detection technology, the Fire Sentry FS24X is a quantum leap in flame and fire detection. Sophisticated software algorithms and dual microprocessors ensure that the Fire Sentry FS24X has the highest fire detection performance combined with optimal false alarm rejection.

Features:

- Patented WideBand IR™ Technology
- Patented Electronic Frequency Analysis™
- Visible sensor for optimum false alarm rejection
- Selectable detection sensitivities
- Field-of-View: 110° full 100% cone-of-vision (90° full 100% cone-of-vision model also available)
- Dual microprocessors for reliable performance
- Real-time clock for accurate time dating of events
- FirePic™ — pre-fire event data storage
- Event log with date and time stamp
- RS-485 ModBus communication
- Non-Isolated 4-20 mA analog output (sink or source)
- Alarm, Fault and Fire Verification relays
- Automatic optical path and electronic self-test
- Widest operating temperature range
- Patented Electronics Module for components protection with easy plug-in terminations and field installation
- Two ¾" NPT or 25mm conduit entries
- Low power consumption
- High RFI and EMI immunity
- FM, ATEX, CE mark approvals
- Meets SIL 2 requirements
- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- User selectable outputs
- Optimal false alarm rejection for all environmental conditions
- Minimal maintenance for trouble-free operation
- PC software and Interface Module (FSIM) for fault diagnostics, real-time graphics (RTGs), and downloading of FirePics™ and event log
- Suitable for a wide variety of applications
- Easy electronics module replacement
- Test lamps for manual testing

Fire Sentry FS20X

Based on the foundation of the highly successful and reliable Fire Sentry SS4 detector, the Fire Sentry FS20X detector represents a quantum leap in integrating Infrared and Ultraviolet sensing technologies. The Fire Sentry FS20X is a Multi-Spectrum and UV/Dual IR/VIS fire and flame detector with a proven UV solar-blind sensor. The Fire Sentry FS20X exhibits faster false-alarm free response to fires over a wider temperature range and with a much longer detection range compared to conventional UV/IR detectors.

Features:

- Patented WideBand IR™ Infrared combined with Ultraviolet
- Detection range greater than 200 feet to 1 sq. ft. heptane fire
- Patented Electronic Frequency Analysis
- Visible sensor for optimum false alarm rejection
- Selectable detection sensitivities
- Solar blind 90° full 100% cone-of-vision
- Dual microprocessors for reliable performance
- Real-time clock for accurate time dating of events
- FirePic™ — Up to 6 pre-fire event data storage
- Event log — Up to 200 events with date and time stamp
- Built-in RS-485 ModBus Communication
- Built-in non-isolated 4-20 mA analog output (sink or source)
- Alarm, Fault and Fire Verification relays
- Automatic Optical Path and Electronic Self-Test
- Widest operating temperature range
- Patented Electronics Module for components protection with plug-in terminations for easy field installation
- Two ¾" NPT or 25mm conduit entries
- Low power consumption
- High RFI and EMI immunity
- FM approved
- Detects hydrocarbon and non-hydrocarbon fuel fires in all environmental conditions
- Arc welding immunity
- False alarm rejection for all environmental conditions
- Minimal maintenance for trouble-free operation
- PC software and Interface Module (FSIM) for fault diagnostics ,real-time graphs (RTGs), and downloading of FirePics™ and event log
- Suitable for a wide variety of applications

Fire Sentry SS4 Series

Fire Sentry SS4-A

The Fire Sentry SS4-A represents the world's pre-eminent UV/IR technology for Electro-Optical Flame Detectors with tens of thousands successfully operating in a multitude of installations worldwide. This multi-spectrum detector senses radiant energy in the ultraviolet (UV), visible and Wide Band Infrared™ (IR) spectrum. The radiant energy from all types of flaming fires will alert the detector to their presence.

To eliminate common nuisance false alarms that occasionally occur with UV-only, IR-only, Dual IR or Dual Mode UV/IR detectors, the Fire Sentry SS4 detectors FireLogic signal processing requires that UV, visible and Wide Band IR radiant energy all be evaluated before declaring a fire. The smart detector utilizes real-time signal processing algorithms that are optimized to alarm on all types of fires, while virtually eliminating the possibility of false alarms.

Fire Sentry SS4-AS

The Fire Sentry SS4-AS processes UV, IR and Visible (VIS) spectral ranges from ruggedized solar-blind UV, "Quantum-Effect" IR and VIS sensors correspondingly. It is optimized for detection of hydrogen, ethanol, methanol and methane (natural gas) fires and like the other detectors in its family, it responds to Type A, B and C flaming fires.

Fire Sentry SS4-AUV

The Fire Sentry SS4-AUV represents the leading edge technology UV optical flame detectors. This flame detector senses radiant energy in the ultraviolet (UV) spectrum. The radiant emissions of flaming fires will alert the detector to their presence.

SS4 Series Features:

- Built-in test for optical "through the lens" testing
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar-blind
- Adjustable detector sensitivity
- Microprocessor based algorithms: FirePic™, Snapshot™ and Tri-Mode Plot™
- Wide temperature range of operation
- Compatible with standard approved fire alarm panels
- Explosion-proof housing
- Time programmable alarm verification

SS4-A and SS4-AS Features:

- Multi-Spectrum™ senses ultraviolet, visible and Wide Band Infrared™
- False alarm immunity

SS4-AUV Features:

- Senses solar-blink ultraviolet band
- Utilizes long-life, ruggedized UV sensors

Fire Sentry SS3

The Fire Sentry SS3 fast-reacting, Ultraviolet (UV), Wide Band Infrared (IR) and Visible spectral brand electro-optical digital fire and flame detectors are designed to alarm on all types of fires. They have an alarm range of 30 ft for a one square foot gasoline reference fire with a 120° circular field of view coverage.

Features:

- Multi-Spectrum™ senses energy in the ultraviolet, Visible and Wide Band Infrared™
- False alarm immunity
- Detects hydrocarbon and non-hydrocarbon fires
- Microprocessor based algorithms: FirePic and Tri-Mode Plot
- Wide field-of-view
- FS2000™ System compatible or standalone operation
- Compatible with approved fire alarm panels

Fire Sentry SS2

The Fire Sentry SS2-AM and Fire Sentry SS2-AML are ultra-high speed digital multi-spectrum optical flame detectors. These detectors feature ultra-high speed responses to explosive fires and are typically used in munitions and explosives production as well as special applications.

Fire Sentry SS2-A and SS2-AN:

- Multi-Spectrum senses ultraviolet, visible and WideBand IR™
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar blind
- Greatest sensitivity with false alarm immunity
- Microprocessor based algorithms: FirePic and Tri-Mode Plot
- Wide temperature range of operation
- Explosion-proof housing
- Proven in worldwide applications
- FS2000™ System compatible or standalone operation
- Compatible with approved fire alarm panels

Fire Sentry SS2-AM and SS2-AML:

- Multi-Spectrum senses ultraviolet, visible and WideBand IR™
- Detects hydrocarbon and non-hydrocarbon based fires
- Wide field-of-view and solar blind
- Greatest sensitivity with false alarm immunity
- Microprocessor based algorithms: FirePic and Tri-Mode Plot
- Wide temperature range of operation
- Explosion-proof housing
- FS2000™ System compatible or standalone operation
- Ultra-high speed response to explosive fires

Fire Sentry FS7

The Fire Sentry FS7-2173 electro-optical radiant energy fire detector and the Fire Sentry FS7-2173-2RP (unitized model) with multi-spectral WideBand IR™, Near Band IR, and Visible Band fire detection are designed specifically for semiconductor Clean Room fire protection applications.

The Fire Sentry FS7 fire detector provides and intelligent two-stage response to semiconductor wet bench fires:

Stage 1: Alert. This is the first-stage response to a small fire with a heat energy output of 3 kW (the equivalent of a 4-inch diameter polypropylene pool fire). This allows time for the fire to self-extinguish.

Stage 2: Alarm. If the fire does not self-extinguish, and grows to the Factory Mutual specified heat energy threshold of 13 kW (the equivalent of an 8-inch diameter polypropylene pool fire), the second-stage response is activated.

Features:

- Multi-Spectral digital electro-optical radiant energy infrared fire detector
- Unique two-stage fire detection response
- Immune to false alarm sources
- NOT affected by absorbing smoke, gases or chemical vapours
- NOT sensitive to background radiant energy from electric heaters and ovens
- Detects hydrocarbon and non-hydrocarbon fires
- Rugged leak-proof, heat-sealed, acid-resistant, injection-molded polypropylene housing
- Wide 120° field-of-view
- Digital communication with RS-485 interface
- FirePic time and date-stamped digital fire signatures
- Built-in detector automatic self test
- Unitized model design for stand-alone operation

FS System 10™ and FS10-R

Fire Sentry FS System 10™

A high-speed microprocessor based fire detection and process control system specially designed for liquid and powder coating applications, the Fire Sentry FS System 10™ quickly detects the presence of a flame, reacts by initiating a shutdown of the electrostatic finishing process in a matter of milliseconds, and effectively interrupts the fire before residues and wet paint films can ignite.

The Fire Sentry FS System 10 is the only system that provides a two-stage response: an ALERT for spray gun “fireball” type fires, and if the fire continues, a FIRE ALARM is declared in 4-5 seconds. It is vastly superior to conventional detectors due to the electro-optical quantum infrared sensors array and the ability to accurately detect fires without false alarms. It is available in both wall-mount controller and card controller configurations.

The detector is mounted in an explosion-proof housing. The wall-mounted controller is a self-contained system mounted in a NEMA 12 enclosure with LCD display and LED status lights. Three 10-amp mechanical relays have been incorporated for shutting down the paint flow, electrostatics and conveyor. Event history and fire tech data are reported by the detector in real time and data, then stored in the controller’s non-volatile memory. FirePic™ and SnapShot™ data can be downloaded from the RS-232 port of the controller from your PC. The controller may operate with one or two detectors.

Fire Sentry FS10-R Unitized

The Fire Sentry FS10-R Unitized is a multi-spectral infrared electro-optical flame detector designed specifically for liquid paint or powder spray booth applications. Based on the Fire Sentry FS System 10, the FS10-R Unitized flame detector meets the need for a stand-alone capability and complies with the NFPA 33 Standard. The WideBand IR™, NearBand IR, and Visible sensors combined with the advanced signal procession provide optimum performance. High speed fire response with optional factory sensitivity settings and alarm outputs provide the best, proven solution to fire detection for the Finishing Industry.

Features:

- Multi-Spectral digital electro-optical infrared fire detector
- Meets requirements of NFPA 33
- Unique two-stage ALERT and FIRE ALARM response
- Immune to false alarms caused by arcs or corona discharges
- Built-in automatic “through the lens” self-test
- Not sensitive to background radiant energy sources such as paint heaters
- Not affected by absorbing smoke or paint solvent mist in liquid paint spray booths
- Sees through paint, powder or oil residue on detector’s lens
- Digital communications with RS-485 interface
- FirePic retrieval of recorded pre-fire data
- SnapShot dynamic graphical display of what the detector sees

Fire Sentry FS17X

The Fire Sentry FS17X Electro-Optical Multi-Spectral detector senses the WideBand Infrared™ (IR) radiant energy of blackbody particulate and molecular emissions generated by both hydrocarbon and non-hydrocarbon flames and fires.

Additionally, the detector's sensor array senses Visible Band (VIS) and NearBand IR to further discriminate against false fire sources. The FS17X WideBand Multi-Spectral sensor array spans 0.4 to 3.0 microns and features a wide 120° field of view. This fire and flame detector is Factory Mutual approved for use in Class I, Division 2 (Zone 2) hazardous locations. It is available in a polypropylene housing, is rated IP67, dust tight, leak-proof and water tight to 1 metere

Features:

- Multi-Spectral digital electro-optical radiant energy infrared fire detector
- Detects hydrocarbon and non-hydrocarbon fires
- Polypropylene housing
- IP67 rated
- Wide 120° field-of-view
- Digital communication with RS-485 interface
- FirePic time and date-stamped digital fire signatures

FAAST Very Early Warning Fire Detector

FAAST (Fire Alarm Aspiration Sensing Technology) provides extremely sensitive and accurate very early warning detection and alarm, which gives facility managers precious time to take appropriate action to maintain business continuity before disaster strikes. FAAST is so precise that it can discern nuisance particulates, such as dust, which reduces false alarm incidents that lead to costly downtime and unwarranted activation of connected suppression systems.

As an aspirating detector, FAAST draws air samples into its sensor through a pipe network, which allows the detector to provide accurate detection even in challenging environments such as fluctuating temperatures. Its smoke detection performance is built around its unique Dual Vision sensing technology. The sensor utilizes an extremely sensitive blue LED to provide very early detection, up to 60 minutes before combustion. The sensor also uses an infrared laser to identify nuisances like dust that can cause false alarms, downtime and unwarranted activation of connected suppression systems. The detector interprets signals from both sources to provide the earliest and most accurate warning of the widest range of fires available.

Features:

- Dual source (blue LED and infrared laser) optical smoke detection with advanced algorithms detect a wide range of fires while maintaining enhanced immunity to nuisance particulates
- Detection as precise as 0.00046 %/ft obscuration
- Five alarm levels and two sensitivity modes
- Dual flow detection including both ultrasonic and electronic sensing for pipe and chamber air flow measurement
- One device protects up to 8,000 sq. ft.
- Advanced detection algorithms reject common nuisance conditions
- PipeIQ™ software provides intuitive control over system layout, configuration, and monitoring
- Five alarm levels can be programmed for latching or non-latching relays
- Onboard ethernet interface enables remote monitoring and e-mail status updates to computer or mobile devices
- Fault indicators exhibit a broad spectrum of events
- Unique air flow pendulum graph verifies pipe network functionality
- Particulate graph displays subtle environmental changes for early problem indications

HONEYWELL VULCAIN COMMERCIAL GAS DETECTION

E3Point

E3Point is capable of detecting the widest range of toxic and combustible gases found in commercial building spaces and outbuildings, including CO, NO2, O2, H2, H2S, CH4 and C3H8. It can be used as a standalone unit with single or dual-gas detection (i.e. using a remote sensor) or deployed as a networkable device (interoperable with BACnet, Modbus or other Building Automation System); E3Point also functions with existing controller-based gas monitoring systems and wired-wireless gas monitoring system components.

Features:

- Comes in standalone, standalone with remote (dual gas mode), or network versions
- Connects to analog or digital systems
- Works with virtually any BAS including BACnet and Modbus
- Connects to wired or wireless system (via 301CW wireless controller)
- Wall or duct mount
- Factory-calibrated cartridges
- Saves energy through Demand Control Ventilation (DCV)
- Simplifies installation/maintenance through plug-n-play sensor
- Remote sensor option provides dual gas monitoring (standalone version only)
- Optimizes BAS, fire, ventilation and other security systems
- Works through BAS to improve fault diagnostics and collect data on gas concentration levels, sensor condition, etc.
- Couple with 301C to log data and daisy-chain up to 96 E3Point units
- Detects CO, NO2, O2, H2, H2S, CH4, C3H8
- Advanced electrochemical (for toxic gases) and catalytic bead (for combustible gases) sensor performance
- Uses patented Reflex® and smart cartridge technologies

Vulcain 301AP

The 301AP remote annunciator provides an efficient interface between gas transmitters and external alarming. It features visual indicators, multiple alarm levels, and failure alarm within a secondary control location, allowing users to “listen” in to the gas network.

Features:

- 3 DPDT relay outputs for added functionality
- 65dbA audible alarm
- Visual status indicators and backlit LCD display
- Auto-detection (Plug & play)

Vulcain 301C

The 301C continuously monitors and controls toxic gases, combustible gases, and oxygen hazards. Designed for installation and operational simplicity, the VA301C reduces the cost of installation and ownership.

The 301C controller offers unique zoning capabilities which permit the averaging and comparison of multiple sensor readings. Zoning ensures that localized brief fluctuations registered at a single transmitter do not activate relays. The 301C has the capacity to manage input from three Modbus channels for up to 96 transmitters and up to 50 wireless transmitters which can be associated with up to 126 zones. Transmitters can belong to an unlimited number of zones, providing maximum operational and control flexibility.

Features:

- Zero maintenance
- Automatic quick self-test and warm-up
- Continuous alphanumeric display
- Allows for up to 126 zoning groups which can save energy and extend fan and relay life
- Manages up to 768 events with programmable latching alarms
- Modbus compatible; with BACnet/IP available
- Interchangeable transmitters able to detect different gases
- Expands to handle up to 96 transmitters or relay modules and up to 50 Vulcain 301W wireless sensors
- Programmable time delays
- Integrated time clock enables scheduling of system operations
- Full array of visual indicators and integrated 65dBA alarm levels
- Fully programmable relays (can be set as fail-safe or not)
- Available in a heavy duty industrial housing
- Datalogging option

Vulcain 301R

The 301R acts as an output to the 301C. The Relay Module provides 8 relays (DPDT 5A, 30 VDC or 250 VAC resistive load) for the indirect activation of fans, louvers, etc. at programmable alarm levels. Since the relay module is an output to the controller, it can be located at any point within the gas detection network.

Features:

- Easy daisy chain installation (RS-485)
- Offers 8 DPDT relays
- LED visual indication of status next to each relay
- Fully compatible with the 301C controller

Vulcain 301EM

Easily configured to meet ASHRAE 15, B-52 and International Mechanical Code requirements, the 301EM is commonly used to optimize gas detection in mechanical and chiller rooms. A full complement of sensors (including toxic, oxygen, combustible gases, and a full line of refrigerant sensors), horns, strobes and remote panels provide added flexibility to suit a variety of gas detection system solutions.

The Vulcain 301EM can be configured to offer automatic fan, horn and strobe activation in addition to manual fan activation. Latching relay for manual alarm recognition, silence key for manual horn deactivation, built-in 24 Vdc outputs for horn operation, and 2 breakglass switch accessories for manual alarm activation ensure optimal performance.

Features:

- Easy to read LCD display
- Auto-diagnostic capabilities
- Able to operate with up to four remote sensors at a time
- Various sensors available to simultaneously detect a range of different gases
- Robust and reliable RS-485 Modbus communication
- Three 24 Vdc alarm outputs and four 4-20 mA outputs
- Four fully programmable relays
- Three alarm levels with visual indicators and audible alarm
- Convenient standalone or network operation

Vulcain 420I Digital-Analog Converter

The 420I communicates digitally with Vulcain transmitters within a true daisy chain network, converting the transmitters' digital signals to analog outputs. This allows each transmitter to provide a 4-20mA signal to a BMS from one central location. The unit can accommodate up to eight transmitters installed at up to 2,000 feet from the unit.

To avoid expensive DDC hook-ups and BMS software upgrades, the unit even comes with internal logic that will provide averaging/ minimum/maximum reading for up to 16 transmitters.

Features:

- Easy installation through daisy chain hook up (RS-485)
- Provides dedicated 4-20mA outputs for up to 8 transmitters

ToxyPoint

ToxyPoint is designed to reduce the overall cost of ownership with a lower initial investment, eliminating maintenance costs and minimizing building electrical operating costs. ToxyPoint delivers accurate, reliable protection from carbon monoxide by combining a carbon monoxide detector (0-500 ppm), wide supply voltage range, and a linear 4-20 mA output with two factory set alarm levels and two alarm outputs. No extra transformer is required.

Features:

- Zero maintenance - No calibration, no sensor replacement, no downtime
- 2-wire, loop-powered, fits into standard, single-outlet electrical box
- Automatic full function sensor integrity test performed daily and on activation
- Improved indoor air quality (IAQ) with accurate, reliable detection of carbon monoxide
- Rugged sintered stainless steel screen protects sensor from damage
- The resiliency of industrial technology now available to the commercial market

IAQPoint2

IAQPoint2™ puts money in your pocket and fresh air comfort into your building by using demand-controlled ventilation and triple monitoring (CO2 or VOCs, Temperature and Humidity).

Features:

- Menu driven, customizable, easy-to-navigate touchscreen display
- Simple wall- or duct-mount
- Multi-analog or digital (BACnet, Modbus) options
- DC and AC power; fits standard junction box
- 5 year sensor life with automatic self-calibration
- Adjustable set-points and optional relay for local fan activation
- 3-in-1 monitoring: choose reliable CO2 or VOC sensing technologies
- Optimize room comfort through temperature control
- Obtain LEED credits
- Meet ASHRAE 15 standards
- Low power consumption and 'sleep mode' feature
- Optimize HVAC use and extend life of components

IAQ Point

The IAQPoint's dual IR sensing technology offers better drift and temperature compensation for measuring ambient CO2 levels and does this within a smaller and sleeker enclosure. The addition of BACnet and Modbus digital outputs make it simple to install and integrate into the existing building automation system. Units can be ordered with a simple 4-20mA analog output or optional display. If the application does not require temperature and relative humidity, a CO2 only version is also available.

Eliminating the need for additional devices and excess wiring, the IAQPoint easily snaps into a standard electrical box for simple wall mount installation. A duct mount version is also available for those applications that need to monitor incoming air from outside the building or do not wish to place the unit in plain view.

Features:

- No moving parts – Trouble free operation
- Menu driven operation – Easy calibration
- Proven dual beam IR technology
- Accurate temperature and rH readings
- BACnet or Modbus digital outputs
- Backlit display
- Analog output option
- User selectable gas detection range

SQN8x

The new generation of the SQN8x series combines long proven sensing capability with state-of-the-art pumping technology and constant, high accuracy to yield a highly reliable sample draw gas detection system.

The SQN8x offers accurate monitoring of the presence of a wide variety of refrigerants or other toxic and explosive gases in a surveillance area of up to 8 different zones. A low maintenance diaphragm pump draws ambient air to the sensor from a maximum distance of 1000 feet. A high performance sequencer synchronizes the mechanics and the electronics so that the levels of detectable gases are properly registered for each of the 8 zones. The unit is fully operational from the box, making for simple, hassle-free installation. The new generation of SQN8x provides an excellent, cost-effective, centralized gas detection solution.

Features:

- 3 alarm relays: audible alarm, early low level warning alarm, integrated flow loss surveillance
- Reliable
- Wide area of coverage
- 2, 4 or 8 sample points
- Proven sensing technology
- Up to 2 gases

HONEYWELL MANNING REFRIGERATION GAS DETECTION

Manning EC-F9

The Manning EC-F9-NH3 with SensorCheck™ features industry-leading performance gas detection technology and adds a built-in system to monitor and predict the sensor's electrical viability.

Available with an optional LCD that allows real time display of gas concentration. The easy to read display allows for quick visual error events upon startup and troubleshooting, and can be calibrated without a voltmeter. The EC-F9-NH3 with LCD is designed to work in the harshest environments including chemical washdown.

Features:

- Rapid response to ammonia
- Can be used with any Honeywell Analytics readout
- Standard range of 100 ppm can be rescaled for higher ranges
- Provides a linear output of 4/20 mA as a function of refrigerant concentration
- Realtime calibration eliminates maintenance downtime
- ATMOS™ Technology allows for operation down to -50 F and in condensing humidity environments or during washdown
- Automatically adapts to its environment and provides accurate and reliable performance under the harshest conditions
- SensorCheck™ Technology checks operating parameters of sensors and sends a notification output signal if an anomaly is identified
- Tests the sensor every 24 hours for electrical viability
- Indication can be detected by a Manning gas monitor or PLC
- NEMA 1 #16 gauge heavy-duty steel enclosure - explosion-proof design available

Manning AirScan™ iR

The Manning AirScan™ iR infrared sensor is an affordable microprocessor-based sensor that is selective to refrigerants and, because of its stabilized design platform, will provide years of service and will maintain the highest level of accuracy and reliability. This highly versatile sensor features SensorCheck™, a unique technology that continuously monitors sensor performance that enables it to provide worry-free performance throughout the life of the sensor.

Features:

- Rapid response to refrigerants including R-404a, R-22, R-507 or R-134a
- Continuous internal monitoring of 4/20 mA loop circuitry
- Diffusion-Design Sensor has no moving parts and doesn't require pumps or filters
- Can be used with any Honeywell Analytics readout
- Standard range of 0-3,000 ppm, can be rescaled for lower trip points
- Simple, real-time calibration eliminates maintenance downtime Unique internal reference channel compensates for dust particles, source degradation, humidity and temperature fluctuation, food odours, chemical cleaners, etc.
- ATMOS™ Technology allows for operation down to -60°F and in condensing humidity environments or during washdown
- SensorCheck™ Technology checks operating parameters of sensors and sends a notification output signal if an anomaly is identified
- Tests the sensor every 24 hours for electrical viability
- Indication can be detected by a Manning gas monitor or PLC
- High-mass metal bench provides structural and thermal stability and greater immunity to vibration
- Superior EMI/RFI shielding

Manning VL

The Manning Vent Line sensor continuously monitors vent line headers for ammonia and fluorocarbons. The Manning Vent Line (VL) is designed to continuously monitor for high concentrations of ammonia or fluorocarbons in vent lines of refrigeration systems.

Designed to be installed in refrigeration vent lines, the VL sensor is supplied with a 2" cast steel T, plug and nipple. The sensor is embedded in a 2" forged steel bull plug and houses a four-point terminal strip for electrically connecting the sensor and pre-amp. The linear 4/20 mA output pre-amp is housed in a separate enclosure.

The Manning Vent Line leak detector is designed to be electrically connected to and monitored by all Honeywell Analytics readouts or it can send a signal directly to a PLC.

Features:

- Improves personnel, product and equipment safety
- Extremely reliable sensor assembly
- Easy to calibrate and adjust
- Simple to install
- Continuous monitoring
- Can potentially lower insurance rates
- Input directly to central alarm systems
- Linear 4/20 mA output

Manning GM-JR

The GM-JR is an innovative stand-alone or “signal feed-through” readout/alarm unit that can be configured in a variety of ways to solve many refrigeration-gas concentration and alarm needs at an affordable price. The readout provides a calibrated 20-segment LED bargraph, alarm and fault LEDs, plus a relay output with easy trip point adjustment.

This unique, practical gas monitor readout/alarm device has an easily adjusted setpoint and relay output in either configuration, plus 4/20mA output in the “feed-through” design. With its own plug-in power supply, the GM-JR sensor combination provides an economical answer for local concentration level information and control capability.

Features:

- 20-segment calibrated bargraph
- Power-up delay
- Fail-safe design
- Easy trip setting
- Relay output is time delayed
- Downscale alarm configuration available for oxygen
- Rugged NEMA 1, gasketed steel enclosure
- Continuous fault monitoring
- Feed-through configuration allows remote readout capability while being powered from instrument cable (no remote power supply needed)

Manning AirAlert 96d

The Manning AirAlert 96d multichannel gas monitoring system is designed for installation and operational simplicity for continuous monitoring and control of toxic gases, combustible gases, and oxygen hazards.

The Manning AirAlert 96d can support up to 96 sensors, relay modules and provides unique at-a-glance system status, and can be maintained with ease using the menu driven push button controls.

This easy to use system can be completely customized in an industrial or commercial application by using any combination of Honeywell Analytics sensors. The Manning AirAlert™ 96d has the potential to complete plant control systems by operating independently, interfacing with it to create a reliable standalone safety system.

Features:

- Three distinct channels act as the nerve centre of a modular gas detection network of up to 96 devices
- Menu-driven program lets you easily fine-tune applications ranging from minor operational sequences to reconfiguration of entire network
- Supports any combination of Honeywell Analytics gas sensors, including NH3, CO2, H2, CO, Cl2, CFC’s, HCFC’s, HFC’s, CH4, O2, NO2, and more
- Field-programmable alarm levels for each sensor
- Zoning capability allows for up to 126 zones
- 122 x 32 alphanumeric LCD display provides continuous information for the entire network
- Controller provides automatic datalogging within cast aluminum enclosure
- Sensor concentrations and alarms are recorded for analysis

HONEYWELL HIGH TECH FIXED GAS DETECTION

Vertex M

Vertex M is an economical way to install, augment or upgrade a gas monitoring system. It provides a flexible 8 to 24 points of monitoring for use with up to 3 Chemcassette analyzers or combination 1 pyrolyzer analyzer/1 universal Chemcassette analyzer; comes in a small, space-saving cabinet; 110V or 220V power options; and uses the industry's most reliable toxic gas monitoring technology, colorimetric Chemcassette, which shows proof of a gas response through a telltale stain on the Chemcassette tape. The Vertex M integrates easily into a factory automation system or HMI to serve semiconductor, PV, nano, specialty chemical, lab and other High Tech/Industrial environments.

Features:

- No calibration or flow balancing required
- Additional pump and internal power module increase uptime
- Software can be configured with out taking unit offline
- Sampling points can be up to 400 feet (121m) from the monitor and routed to more than one analyzer.
- Easy to use
- Touch screen for easy access to data
- Software updates via CD-ROM or network to all system components
- Radio frequency identification tag (RFID) ensures Chemcassettes® are installed into appropriately programmed analyzer, eliminating human error
- Multiple levels of password protection
- Reconfigure security setup without taking unit offline
- One system monitors up to three gas families and more than 40 gases
- You can split your sample to more than one analyzer
- Uses cost-effective XP Chemcassettes®, providing up to three months of continuous monitoring
- Easy access to analyzers, pumps, power supplies and touch screen from front panel
- Built-in configurable PLCs with optional 64 relay contacts
- Standard OPC interface for easy integration into your existing factory automation system or HMI
- Optional Ethernet/CIP, LONWORKS®, DeviceNetTM, DF1Interface, PROFIBUS, Modbus Plus, Modbus/TCP or ControlNet outputs available

Vertex Multi-Point Toxic Gas Monitoring System

Up to 72 points of continuous gas detection. Vertex combines the most advanced Chemcassette, software and optics technologies into a flexible, easy-to-use, reliable gas monitoring system.

Start your Vertex™ System with as little as eight points. As your monitoring needs change, Vertex™ expands, offering you up to 72 points of continuous gas detection. Place your sampling points up to 400 feet (120 metres) from the system. There is a choice of universal analyzer modules and/or pyrolyzer analyzers.

Vertex also offers powerful, built-in system redundancy as standard equipment to effectively safeguard against downtime.

Features:

- Back-up pump and internal power module
- Chemcassette® technology provides physical evidence of gas event
- System data back-up; If main data acquisition PC fails, analyzers continue to monitor, log data and alarm
- Drip resistant cap for system protection from overhead leaks
- Automated leak test with line integrity option
- Touch screen for easy access to data
- Software updates via CD-ROM or network to all system components
- Configuration profile editing and data retrieval are all achievable without taking unit offline
- Radio frequency identification tag (RFID) ensures Chemcassettes are installed into appropriately programmed analyzer, eliminating human error
- Multiple levels of password protection
- One system monitors up to nine gas families and more than 40 gases
- Split your sample to more than one analyzer
- No dynamic calibration required
- No flow balancing
- Easy access to analyzers, pumps, power supplies, and touch screen from front panel
- Built-in configurable PLCs with optional 176 relay contacts
- Standard OPC interface for easy integration into your existing factory automation system or HMI
- Optional Ethernet/CIP, LonWorks®, DeviceNetTM, DF1 Interface, Profibus, Modbus Plus, Modbus/TCP, ControlNet, or isolated 4-20mA outputs available
- Optional Chemcam camera permits viewing of stain, locally or remotely, for proof of gas event; Image is electronically saved for future retrieval
- Optional remote control/viewing software enables total visualization of the monitor screens at a remote PC